April 16, 1972 - April 16, 1973

								AMOUNT	T OF USAGE	
Investigator	DEPARIMENT/ INSTITUTION	PROJECT TITLE	Identifying ConTRACT SUPPORT Identifying Current Number Agency Annual Amt	Agency /	Τ.	Bar Cate-	BATCH Mimutes	Terminal Access	TIME SHARING Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Calegory 1 Realtime, Sponsored Research	red Research	OHARGEARLE)							@ \$.01 per pageminute	@ \$.10 per block
Fator, Virginia (J. Lederbery Genetics	Genetics	SAME: Computer control of Finnigan 1915 quadrupole mass spectrometer	NGROO4	TASA	\$ 180,000	ນ		573.5	702.158	30.850
Bunnenberg, Edward	Chemistry	CHEM: Development of a magnetic circular dichroism biotechnology resource.	!	Dept. Funds	}	w	· · · · · · · · · · · · · · · · · · ·	1.	.555	1,240
Constantinou, Christos	Urology	UROL: Investigation of upper uninary tract physiology.	AM1.3548	нти	296 €9	υ		191.0	72.853	2.218
Seirazia, Joseph	Muclear Medicine	RADICREN: Development of radioisotope techniques for the evaluation of differential kidney function,	;	Pub. Health Hosp. S.F.	ì	ω		0.0	0.0	910.
Ceirazia, Joseph	Muclear Medicine	CLINIGAS: Coordination of computer and metabolic gas analyzer.	NGR578	4 A SA	40, 131	Ø		162.1	96.792	3.242
Dong, Bugene	Cardiovas- cular Surg.	PATIENT: Examination of cardiac surgery patient data.	•	Clinic	1	တ		591.8	391.994	21.148
Down Bugene	Cardiovas- cular Surg.	CLIM: General data reduction,	HE13108	итн	329,360	w	-	20.6	14.149	645.4
Sugene अधिक क्षेत्रका	Cardiovas- cular Surg.	LAR: Study of the principles of mam- malian heart rate control, emphasis on sino-atrial node.	нво8696	нти	152,535	υ		161.4	102.392	12.181
Felgenbaum, Edward	Computer Science	DENUMBL: Mass spectra analysis and interpretation.	RR00 61 2	нти:	260, 999	υ		881.7	1110.056	26.635
Gersch, Will	Heurology	CHWINSIN Application of time series methods to problems in neurophysic-logy and medicine.	ì	Dept.	1	ت ت		6.9	6.754	6,88,0
Slick, Dawid	Pathology	LASER: Laser microprobe analytical system for elemental analysis of microscopic biological samples.	GM16181	нти	157,793	w		h21.6	228.342	5.356
Gold, Jerome	Diagnostic Radiology	SWALLOW: Esophageal blood flow studies.	GM01707	нти	135,000	υ		286.7	126.336	28.819
Green, Paul	Biosciences	AVENA: Kinetic analysis of hormones affecting the growth process.	CB28667	ISF	000 06	ω		35.2	92.470	2.798
Hanewalt, Phillip	Biosclences	TRI CARB: Use of radioisotope tracers to study molecular biology of cell growth and repair of damage to genetic material.	GM09901	HIIM	98,986	ø		121.3	75.676	2,063
Harrison, Donald	Cardiology	CATH LAB: On-line cardiac catheterization data analysis; recognition of abnormal EKG complexes.	1,000152	NIH	91, 641	Ü		154.5	57.323	5.670
Kalis, Leslie	Anesthesia	VISABE: Visual average evoked potential to graded light intensity as a correlation of pain threshold.	i	Dept.		ഗ		٦,	0.140	O24.c
Kopell, Bert	Psychiatry	ICON: Study of AER's (Averaged Evoked Responses) in EEG's.	AA00498	IISMIA	718, 697	1 00		0.0	0.0	0.0%0

SUMMARY OF COMPUTER RESOURCE USAGE APRIL 17, 1972 - April 16, 1973

			DIRECT GRANT	CR CONTRA	CR CONTRACT SUPPORT	BRR	BATCH	AMOUI	AMOUNT OF USAGE TIME SHARING	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.		Minutes	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Category 1 (cont'd.)	Pealtime, Spo	Realtime, Spdnsored Research (CHAFGRABLE)							3 \$.01 per pageminute	3 \$.10 per block
Kristan, William	Biosciences	DPERKEE: Analog/digital processing of nerve impulses from swimming leech; study of nervous control of nevoment.	NS097 44	H.	64,983	Ø		9.9	2,705	96n.o
Lederberg, Joshua	Genetics	EXPT: Use of a Packard liquid scintillation counter to analyze the incorporation of radiolabeled amino acids into brain.	- GM00295	HEL	153,727	w		144.9	89.266	1.774
Mezze, Eichard	Anesthesia	REIAT, Study of renal failure following general anesthesia.	GM18514	NIH	61, 166	v)		268.1	147.607	862*1
Pauling, Linus	Chemistry	METTRES: Research on the molecular basis of mental disease, involving gas chromatography.	GM19156	NTH	153 014	w		25.1	198.6	5.320
Reynolds, Walter	Genetics	SOG: Automation of mass spectrometer instrumentation system.	NGROO4	NASA	180,000	w		6.4	0.586	2.966
Foin, Walton	Psychiatry	AER: Research into computer processing of EEG data.	AA00498	HSMIA	718, 697	ß		139.2	43.554	1,161
Samples, John	Otolaryngo- logy	SPEECHPA: Analysis of <u>speech</u> pauses during reading in normal and <u>aphasic</u> children.	41570sn	HTM	157, 136	ಬ		6.4	1.950	264.0
Szythe, Harvey	Psychiatry	SUEEP: Analysis of data from all- night sleep EEG's.	NSTO <i>T 2T</i>	NIH	239, 957	το		22.8	5.985	465.0
Sckolov, Phillip	Biosciences	CIRCRIFIG. Study of role of central nervous system in production and maintenance of circadian rhythm.	GM00365	NIH	53,088	ထ		0.5	0,170	0.134
Sussman, Howard	Pathology	LAB_PAT/LABSYSO: Development of an Automated data processing system for the <u>Clinical Eathology</u> Laboratory of Stanford Hospital.	į	Hosp. Funds	!	υ		563.1	357.711	6.162
Skanson, George	Anesthesia	RESPRE: Investigation of neural mechanisms which sustain ventilation in the absence of chemical stimulation.	GM12527	HIN	503, 159	ω		lt2.1	23.471	0,288
Tatton, William	Biosciences	CPERFEL: Characterization of neural circuits underlying behavior and sensory information processing in numbals and invertebrates.	1750SN	HIN NIH	64,983 SUB-TOTAL	တ		5021.5	5801.489	0.774 172.385
Category ? Non-Realtime,	Sponsored Rese	Sponsored Research (CHAPGEABLE)					@ \$50/hr		@ \$.017 per pageminute	3 \$.10 per block
ಸಾಕ್ಷಾ, Ronald	Palo Alto Veterans Hospital	FORCE: Study of neural mechanisms controlling posture and movement in humans.	į	РАУАН	;	ಬ		0.0	0.0	0.012
Arcnow, Louis	Pharmacology	ICELL: Laboratory calculation of mechanisms of anti-cancer drug action.	CA05672	HIM	52, 491	80	_	5.9	5.555	0.199

SUMMARY OF COMPUTER RESOURCE USAGE APril 17, 1972 - April 16, 1973

DEPARIMENT	I ~		DIRECT GRANT	OR CONTRA			BATCH	AMOUNT T Terminal Access	OF USAGE	Block Storage(K)
INSTITUTION PROJECT TITLE			Number	Agency	ند		Minutes		Pageminutes (K)	(Block=2K Bytes)
Non-Realtime, Sponsored Research (CHANDEADED)	Sponsored Research	(12)	, 			<u>©</u>	\$50/hr	(4)	<pre>\$ \$.017 per pageminute</pre>	3 \$.10 per block
Urology REMIN: Study of <u>remin</u> secrimechanisms.	y of renin	secretion	AM1.3548	MIH	63,962	rs co	· - · · · · ·	18.6	3.834	0.57.3
Med. School FLYHIGH: Aid to Atmissions Committee in selecting new medical school classes from applicants.	FLYHIGH; Aid to Admissions in selecting new medical sol classes from applicants.	Committee nool	1	Dept. Funds	İ	ω		71.5	32.599	6.103
Med. School MATCHES: Natching of medical Admissions students clerkship requests with Committee available positions.	MATCHES: Matching of medic students clerkship requests available positions.	eal s with	1	Dept. Funds		ø.		0.0	0.0	4.50.0
Med. School FIIANCE: Examination of Yale medical Admissions student loan system's applicability to Stanford.	FINANCE: Examination of Yastudent loan system's applite to Stanford,	ale medical	1	Dept. Funds	}	Ŋ		18.3	10.931	0.048
Anesthesia IDS: Institutional Differences Study of post-operative procedures and results in hospitals nationalde.	IDS: Institutional Different of post-operative proceduresults in hospitals nation	nces Study es and nwide.	MS46-72-12	N Acad Sci.	57 t, 279	Ø		9.5	9.125	25 4 .2
Medicine LYSOSOWE: Analysis of kinetics of protein turnover by tissue culture cells.	LYSOSCYE: Analysis of kin- protein turnover by tissue cells.	etics of culture	AI10055	ИІН	33,303	ω		0.0	0.0	0.024
Rediation C:NWARY: Patient data storage and Information retrieval; statistical programs relating to radiation dosimetry.	STMMARY: Patient data stor information retrieval; state programs relating to radiat dosimetry.	rage and distical	CA05838	NIH	1, 012, 612	w		843.8	540.040	38.218
Psychiatry VADRUGSA: Comparative evaluation drug abuse treatment programs.	VADRUGSA: Comparative evaludrug abuse treatment progres	evaluation of ograms.	MH22853	HSMHA	250, 515	vs		0.0	0.0	0.008
Otolaryngol- HSA: Hearing and vision screening: ogy processing of results of tests administered to elementary school children.	HSA: Hearing and vision sor processing of results of tes administered to elementary s children.	eening: its chool	1	Dept.	į	တ		77.8	499.19	4.836
Otolaryngol- SEC: Vision screening	SEC:		1	Dept. Funds	i i k	တ		0.0	0.0	0,002
Pharmacology REGRESS: Analysis of membrane proteins.	REGRESS: Analysis of proteins.	ane ane	GMO0322	HIN	157,551	w		1.2	0.652	0.275
Community and AIR POL: Student study of correlation Preventive between incidence of air pollution and respiratory disease.			GY9654	NSF	12,790	εα.		16.6	5.541	240.0
Genetics POPGEN: Human white blood cells and population genetics.	71	cells .	NS10711	HIN	93, 336	w		6.8	5.722	°-888
Blostatis- RESFARCH: Computations in support tics of development of new biostatistical techniques.	RESEARCH: Computations in of development of new biost techniques.	support atistical	RR05353	NIH	133, 817	တ		11.9	5.038	2.017
Anesthesia MAASS: Measurement of frequency surgery in various socioeconomic groups.	MAASS: Measurement of free surgery in various socioece groups.	quency of	<u> </u>	Comm.	!	ω		93.0	32.513	2.806
Biostatis- BIOSTAT: Computations in support of tics Dept. of Anesthesia research projects.	BIOSTAT: Computations in sport. of Anesthesia research projects.		GM12527	NIH	50 3, 159	ω		0.	15.052	2,200

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C COllaborative
S Fervice
T = Training

April 17, 1972 - April 16, 1973

	DEPARTMENT/		DIRECT GRANT OR CONTRACT SUPPORT	OR CONTRA	Current	BRR Cate-	BATCH	AMOUNT T. Terminal Access	UNT OF USAGE TIME SHARTHS	Block Storage(K)
INSTITUTION		PROJECT TITLE	Number	Agency	Annual Amt.	gory*	Minutes	Hours	Pageminutes (K)	(Block=2K Bytes)
Non-Realtime,		Sponsored Research (CHARGEABLE)					@ \$50/hr		@ \$.017 per pageminute	3 \$.10 per block
Biostatis- tics		STULET: Teaching use of ACME in Community and Preventive Medicine courses.	RR05353	NIH	133, 817	₽		26.5	7.062	٥. پېر
Biostatis- tics		CLASS: Classwork for course in biostatistics.	RR05353	HIN	133, 817	Ħ		56.6	29.80h	5.744
Biostatis- tics		CONSULT: Biostatistical computations in support of many medical research projects.	RR05353	HIN	133, 817	ω		146.0	52.158	5.946
Anesthesia		JOBST: Analysis of EKG data.	HL10202	NTH	158, 349	တ		52.1	22.352	5.335
Biochemistry		ULTPA: Studies of the role of Airalent metal ions in the reaction mechanism of the enzyme DNA polymerass.	GMO7 591	HIN	313, 398	တ		1.3	1.084	0.134
Computer Science		DEMENAL: Mass spectra analysis and interpretation.	RR00612	NIH	560, 999	b	6, 976	578.3	305.966	35.437
Computer Science		STAT: Statistical demonstration programs for a course in biostatistics.	GM01922	HIN	301, 396	H		201.6	100,213	0.723
Chemistry		CHTM: Development of a magnetic circular dichroism biotechnology resource.	!	Dept. Funds	:	ω		51.2	20.143	1.174
Urology		UNCCIATS: Urology operative statistics information and retrieval program.	i	Dept. Funds	!	တ		5.0	5.014	0.881
Pediatrics		GUAT: Population genetics studies of Mayan Indians of Guatemala.	GM15593	NIH	21 , 66 8	တ		250.9	102.842	22.57₺
Genetics		LAUEA: Pata analysis on population genetics.	AT(04-3) 326PA332	AEC	32,000	တ		129.9	72.586	3.130
Genetics		MARK: Analysis of pygmy anthropometric and demographic data; cimulation of genetic drift and selection models.	AT(04-3) 326PA332	AEC	25,000	w		0.1	0.010	£20°0
Genetics		PAVIA: Population genetics: evolutionary rate, patterns of inheritance in behavioral traits, analysis of record linkage and pedigree information.	AT(04-3) 326PA332	AEC	52,000	ω		291.2	155,782	1.78
Genetics		JUDY: Text editing for population genetics research.	AT(04-3) 326PA332	AEC	32,000	ဖ		0.0	0.011	6,718
Genetics		KEN: Analysis of genetic models of disease; simulation programs.	AT(04-3) 326PA332	AEC	32,000	တ		11.8	3.185	0.228
Radiobiology		GROWTH: Simulation of cellular population growth pattern.	CA04542	NIH	34,928	တ		18.6	8.653	0,252
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SUMMARY OF COMPUTER RESOURCE USAGE APril 17, 1972 - April 16, 1973

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Core Research	Collaborative	Service	Training
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			DIRECT GRANT	OF CONTRACT	SUPPORT	BRR	BATCH	AMOUNT	TIME SHARING	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current nual Amt.		Minutes	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
(cont.d.)	Non-Realting,	Opencored Research (CHARGEABLE)					± \$50/ir		a \$.017 per pageminute	9 \$.10 per block
Chase, Robert	Surgery	CFGPAC: Evaluation of facial growth in cleft palate children and determination of velopharyngeal competence.	DE02803	HIN	31, 434	w		0.0	0	0.516
Clausen, Mery	Pediatrics	MUTRITIO: Clinical aspects of congenital malformations, human matrician, genetic diseases, and homeostic aspects of growth and development.	HD021147	HIN	304,045	တ		70.7	9.720	215.0
Cleyton, Paymond	Psychiatry	DEWREALH: Effect of steroids and hormones on RNA activity of the brain.	!	Common- wealth	:	w		0.0	0.0	1.230
Collen, Stam	Clinical Pharmacology	Denomination to computerized system to warm of interactions of drugs administered to patients.	HS00T 39	NTH	nn6 '092	υ		552.4	578.354	55.888
Conner, Fobert	Psychiatry	RATRACE: Relation of neuroendocrine function to behavior.	HD02881	HTH	205, 688	w		4.79	59.916	0.793
Jenney, Elchard	Biosciences	EACY: Hadioactive annealed RNA bound to DMA in mitrocellulose filters.	GM00158	HILM	124, 155	တ		2.1	0.576	6.059
Dilley, Jeannette	Immology	CYTOTOX: Study of murine trans- plantation antigens on various tissues; description of biological and bicoincal characteristics of the soluble transplantations from these tissues.	AMO5425	HELM	905 %6	တ		न•स्ट	17.423	0.166
Cirks, Judie	Psychiatry	FORM: Analysis of normal subjects' average evoked responses to pictures of notes.	MH19918	HSMHA	77,702	w		0.1	220°0	0.819
Scoring Charles	Psychiatry	MAPSESSM: Statistical analysis and quality control of hormone assays.	1	Common- wealth	ļ	υ		45.9	13.596	٠ ٢ ٢
Coering, Charles	Psychiatry	DECKGLAS: Investigation of the blochemical connection between hormones and stress.	1	Common- wealth		w		1.0	0,428	0.577
Jrake, Karl	Fsychiatry	HEUROPSY: Analysis of neurophysio- logical and neurobehavioral data, including power spectrum analysis of EDV's.	MH12970	HSMHA	242, 645	ъ		0.0	0.0	0.156
Feidman, Marcuo	Biosciences	PSINSET: Modelling of genetic processes and ecological systems.	}	Dept. Funds	ļ	ຑ		1.9	0.840	£\$0.0
Slatcher, Grant	Anesthesia	DIALYSIS: Statistical analysis of lab results of in vivo and in vitro studies of uptake, metabolism and elimination of sedative drugs.	į	Dept.	ļ	ω υ		٤.0	0.204	0°00°0
Forrest, William	Anesthesia	DATA: Development of an inexpensive system of quality and quantity control of large amounts of clinical data.		Dept. Funds		2	<u>-</u>	0.0	0.0	₹30.0

SIDMMARY OF COMPUTER RESONRER USAGE
April 17, 1970 - April 16, 1973

			DIBECT CRANT OR CONTRACT SUPPORT	OR CONTRAC	T SHPPORT	a a a a a a a a a a a a a a a a a a a	HAVIAH	AMOLIVIT	NT OF USAGE	
INTESTIBATOR	DEPARTMENT/ INSTITUTION	FROUECT TITLE	Identifying Number	Agency	Current Annual Amt.		100	Terminal Access Hours	Pageminutes (K)	Flock Storage E (Block=2K Ectes)
Category 2 (cont'd,)	Non-Realtime,	Sponsored Research (CHARGEABLE)				(6)	@ \$50/hr		@ \$.017 per	3 \$.10 per block
Forrest, William	Anesthesia	SURGICAL: Maintenance of records on surgical operations; source of data for reports on these operations.	!	РАVАН	1	w		33.9	19.547	3.0 <i>3T</i>
Forrest, William	Anesthesia	ANALGESI: Levelopment of an inexpensive system of quality and quantity control of large arounts of olinical orta.	GML2527	HIN	503, 159	Ø		101.3	38.956	. 55. u.88
Forkes, William	Regional Medical Program	AMALYSIS: Analysis of data from registry of stroke patients.	CCRMP	CCRMP	50, 517	ω		20.3	10.332	1.453
Powkes, William	Regional Medical Program	STROKE: Development of a countywide registry for stroke patients in Santa Cruz County; development of a population base for study and analysis.	CCRMP	CCRMP	50, 517	w		17.71	11.6%	13.577
Frenster, John	Oncology	DEMETRES: Leutemia research: probes of nuclear chromatin in living human bone marrow cells to determine their activity in gene de-repression.	CA10174	HIN	38, 129	တ		9.0	0.126	9.016
rings. (secings	Immunology	DATABANK: Establishment of a large clinical databank of time-oriented patient records; expionation of multiple uses of the stored information.	A111313	HIN	201,553	Ů		345.1	152.274	57.036
Jamel, John	Ophthalmol- ogy	FYELAR: Storage of patient data for Division of Cpht.almology.		Dept. Funds	l	83		0.0	0.0	£0°0
Poldstein, Avram	Рівттясогоду	NARCO: Mechanism of the action of narcetics and the lundamental aspects of narcetic addiction.	DA00076	нзмна	207, 462	ts	-	21.3	१८५,4	1,166
iclistein, Avram	Pharmacology	OFFSIUFF: Study of methadone main- tenance programs for heroin addicts.	MH18960	HSMHA	38,680	တ		349.9	183.642	17.907
)clistein, Dorm	Pharmacology	BATE: Establishment of essential parameters for enzyme kinetics in inhibition of flavin enzymes by barbituates.	DA00249	HSMHA	380, 203	ω		8.26	53.445	1.60.
Frant, Scott	Ophthalmol- ogy	CORNIEA: Simulation of light scatter- ing by the cornea using electromag- netic theory.	EY00431	HIN	181, 988	<u>س</u>		5.2	1.812	4.C.O
Greenberg Feter	Hematology	CCPASSAY: Evaluation of factors regulating granulopoiesis in human disease states.	CA13141	NIN	55, 959	ω 		6.84	19.921	0.798
Diess, Harry	Mathematics	EVOL: Genetics research: model simulation using various values of mutation rate population size and mutant fitness distribution.	GM10452	NIH	91,670	ω		9.	t, 882	o. ज.

SUMMARY OF COMPUTER RESOURCE USAGE April 17, 177: - April 16, 1773

			DIRECT GRANT OR CONTRACT SUPPORT	OR CONTRAC	T SUPPORT	BRR	BATCH	AMOUN	AMOUNT OF USAGE TIME SHARING	
Investigator	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	1 .		-	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block-2K Rytes)
Category 2 (cont'd.)	Non-Pealtime,	Sponsored Research (CHARGEABLE)				- 5'.	@ \$50/hr		<pre>% \$.017 per pageminute</pre>	3 \$.10 per block
Habin, George	Radiobiology	PADIATE: Simulation of kinetics of marmalian cell proliferation, design of theoretical dose scheduling for leukemia treatment.	CAO4542	NIH	34, 928	w	<u>.</u> ,,	10.7	4.569	1.305
Hamburg, Beatrix	Psychiatry	PEER: Data storage and analysis for a peer group counseling program among secondary school students.	MH13032	HSMHA	66, 438	w		84.2	19.851	0.546
Hannigan, John	Drew Health Center	DREWEVAL: Study of a multiphasic health screening program: its effectiveness, community response, etc.	i	Drew Med. Clinic		ω		20.8	17.109	1.025
Herzenberg, Leonore	Gyn/Ob	STORE/LAB/FIGGY: Immunology, genetics and maternal-fetal immunologic relationships in the mouse.	HD01287	NIN	55,769	W		189.6	924.16	नग्धः न
Helmeland, Larry	Computer Science	DENDRAL: Mass spectra interpretation and analysis.	RR00612	HIN	560,999	υ		1.7	1.458	0.187
Hogness, David	Biochemistry	OREGON R: Analysis of DNA fragments from Drosophila melanogaster.	GM20158	NTH	96,051	6 0		6.22	9,138	1.895
Jamison, Rex	Nephrology	MICROPUN: Basic mechanisms of salt and water transport in kidney.	!	Markle Fdn.	i	ю		60.3	57.045	1.055
Jazwinski, Stanislaw	Biochemistry	MEXEMANE: Characterization of membrane-bound phospholipase; data obtained from enzyme assays, multi-channel separations, etc.	GM07581	HIN	313, 398	ω .		0.0	0.0	(A14°C)
Jones, Stephen	Radiology	LYMPHGIA: Statistical study of various groups and sub-groups of non-Hodgkins Lymphoma patients.	cAo8122	NIN	2 86, 5 62	ಬ		8.6	10.214	0.70
Karihana, Kyoko	Psychiatry	ETHANOL: Data analysis for neuro- endocrine research on hormones and stress.	GB31099	NSF	25, 000	တ		38.4	11.047	0,640
Kallman, Robert	Radiobiology	SUBVIVAL: Analysis of data relating the survival of experimental tumor cells to the dose of irradiation received by the cells.	CA03353	Ħ	10, 220	ω		0.0	0,040	क् ष ्ट
Calman, Summer	Pharmacology	DIGENUE: Routine calculation of saily assays of placma, urine, and other biological fluids containing, digoxin,	HEL 3618	HIN	to, 595	ω		134.1	54.902	3,037
Zessler, Segmour	Psychiatry	MATCHED: Analysis of mating speed experiments.	GB31099	NSF	52,000	w		10.9	3.463	
Himseld, Rendy	Pharmacology	CHECOTAX: Computer analysis of chemotaxis.	GM00322	NIH	157, 551	w		43.4	13.767	[47.7
Hince, Steve	Ophthalmol- ogy	EPITHELL: Research on ion transport processes across the corneal epithelium to determine how epithelium maintains its hydration.	EY00915	HIM	121 69	w		67.4	34.725	85 25 27

SUMMARY OF COMPLITER RESOURCE USAGE

			PRESETT CRANT OF COMPRACT STEPPORT	CONTRA			BAmcid	AMOUN	AMOUNT OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Τ.	Cate- gory* Min	1 ,	Terminal Access Hours	(<u>K</u>	<pre>Block Storage(K) (Block=2K Bytes)</pre>
Category 2 (cont'4.)	Non-Realtime,	Sponsored Research (CHARGEABLE)				®	@ \$50/hr		@ \$.017 per pageminute	3 \$.10 per block
Kracner, Helena	Psychiatry	PCVSTAT: Analysis of data from various psychiatric research projects.	l	Dept. Funds	i	ω		94.5	34.729	6.330
Kriss, Joseph	Medicine	ASSAY: Studies on the pathogenesis of <u>Graves'</u> <u>disease</u> the effects of X-res; Herapy on thyroid function, and the pathogenesis of other and the disorders associated with autolominity.	AM07.642	HIN	62, 838		·r1	135.8	45.067	1, 840
Friss, Joseph	Nuclear Medicine	BLEVOL: Calculation of plasma volume, blood volume, red cell mass, red cell life span, iron turnover and renal clearance in patients who receive ralloactive tracer material.	AMOT642	NIH	62, 838	ω		22 °0	0°0,48	840.0
Lamb, Draett	Gyn/Ob	ETFIES: Calculation of relative potency and confidence limits of total genadotropen activity of human urine extracts.	ŧ .	Dept. Funds	l	တ	· · · · · · · · · · · · · · · · · · ·	62.8	33.252	0, 61.8
lederberg Margnerite	Pediatrics	MACT: Study of women ND's: socio- economic and family impact on their careers.	i	Dept. Funds	1	w		0.0	0	0°01\$
leman, I. Robert	Biochemistry	FTARE: Studies of the engymatic mechanism of the DNA Ligase of E. coli.	дмо6196	ICEN	140,812	w	-	26.2	್ಕೆ ಜೆ.	0.214
Isiderman, P. Herbert	Psychiatry	PFRIE: Study of human maternal behavior velating the degree of interaction between mother and infart in the post-partum period to later maternal attachment and infant development.	1	Grant Fdn,	10,000	Ø		24.3	9.564	1.222
ielderman, P. Herbert	Psychi a try	HENVA: Analysis of data collected in Newys, relating the effect of social structure of primary family on infants' social attachments in the lirst year of life.	RR05353	нти	133, 817	w		54.8	18,864	₹6°°
lucas, Zoltan	Surgery	KINTALES: Tabulation of survival data for renal transplant patients.	!	Dept. Funds	i	ω	·	†. 2	1.167	1.301
Laetscher, John	Metabolism	BILDS FR: Secretion and metabolism of alread hormones; identification of curable forms of hypertension.	HE13917	HIN	81, 189	ω -		129.6	38.288	2.19h
Maffly, Roy	Metabolism	CCC: Sedium transport; predictive value of tests for blood urea nitrogen and decreased serum sodium concentration.	AM16327	NIH	145, 757	to.		98.1	49 9 °04	1.072
Maffly, Roy	Metabolism	TEACH: Teaching programs for students and staff; evaluation of patients' acid-base disorders; displayed on Beehive terminal and projected onto large screen for class use.		Dept. Funds	!	H	CO .	264.5	228.115	7,930

SINGUARY OF COMPUTER RESCURCE USAGE ANTEL 17, 1773 - April 16, 1773

	tes)	block					_	109 -	-							
	Block Storage(K) (Block=2K Bytes)	3 \$.10 per block	0,0,0	6.744	0,175	1.104	150.4	2.692	0.195	0,048	0.376	0.665	0,204	0,063	0,060	0.681
AMOUNT OF USAGE TIME SHARING	Pageminutes (K)	3 \$.017 per	0.650	115.109	11.586	0.837	526.92	35.031	1,569	0.0	2,405	3.922	0.233	17.745	0.0	१, ३भ
AMO	Terminal Access Hours		1,2	6.282	6 4 C	3.1	106.0	39.8	5.6	0.0	6.8	12.8	1,0	50.2	0.0	8.34
BATCH		@ \$50/hr														
BRR	Cate- gory*		တ	တ	w	v,	co.	w	E⊣	E+	82	ഗ	w	H	တ	ဟ
CR CONTRACT SUPPORT	Current Annual Amt.		63,690	65,000	159, 606	1465,000	718, 697	63, 346	90 , 614	90 , 61 t	ŀ	454 , 15	301, 996	1	ł	152, 418
			Am. Heart	NSF	NTH	Nevy	HSWHA	NIH	HILL	NIH	Dept. Funds	NIH	HIIN	Dept. Funds	Dept.	iE
DIRECT GRANT	Identifying Number		72875	GB33501X	A107757	N00044	AA00498	нто57 09	GM00025	GM00025	!	DE02803	GM01922	1	l	AI00082
	PROJECT TITLE	Spensored Pessearch (CLESSEALS)	SERUM: Analysis of blood serum electrolytes from ion-specific electrodes.	ABSORB: Paramagnetic resonance spectra research; hemoglobin mutations, fluidity of membranes, electrochemical potential of membranes.	MAEGALO: Calculation of the antigen- binding activity of antisera from mice immunized with various branched multichain synthetic polypeptide antigens.	ISINIBOM: Development of a system of automatic classification of human circosomes.	TEMPO: Study of psychotic processes; especially relating charges in temporal experience to psychopathological symptoms.	CAB: Development of risk/benefit enidelines for saphenous vein - coronary artery bysass surgery.	THESES: Biostatistical computing by graduate students for theses or other educational use.	COMPSES: Computing done by staff in connection with the teaching of bicstatistics.	ECT: Analysis of self-report psychi- atric inventory questionmaire.	RSF: Evaluation of respiratory studies as a measure of velopharyngeal incompetence, comparing it with age, cine-fluorographic results, operation, and time.	CIX: In vitro assay of transplants- tion immunity aimed at jevelopment of a superior immunosuppressive protocol.	IMPED: Introduction to computing for minority pre-med students.	FSORIASI: Fsoriasis research.	STRUCTUR: Statistical calculations and bibliography compilations in the
	DEPARTMENT/ INSTITUTION	Non-Realtime,	Metabolism	Chemistry	Immnology	Electronics Lab	Psychiatry	Cardiology	Statistics	Statistics	Psychiatry	Surgery	Surgery	Youth Opportunities Frograms	Dermatology	Medical Microbiology
	INVESTIGATOR	Category 2 (cont'd.)	Maffly, Roy	Molonnell, Harden	McCevitt, Hugh	Malen, Robert	Melges, Frederick	Miller, Craig	Miller, Rupert	Miller, Rupert	Miller, Warren	Trami, Roland	Corris, Pandall	∵ers, Hoodrow	Tall, Lexie	mailiam evi

SUMMARY OF COMPUTER RESOURCE USAGE APRIL 17, 1972 - April 16, 1973

			DIRECT GRANT	OR CONTRA	OR CONTRACT SUPPORT	BRR BA	BATCH	AMOUTT	T OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	T :			Terminal Access	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Category 2 (cont'd.)	Non-Realtime,	Sponsored Research (CHARGEABLE)				8	@ \$50/hr		@ \$.017 per	3 \$.10 per block
Crdal, John	Immunology	ALGERNON: Calculation of antigenbinding activity of antisera from mice immnized with various branched multichain synthetic polypeptide antigens.	GM01922	NIH	301, 996	တ		2*4	1,304	0.252
Ostrem, Dennis	Blochemistry	GLYCYLRS: Enzyme research on glycl-TRRA: Kinetics of Subunit association, ultra-centrifuge experiments, and amino acid analysis.	GND 7235	NIH	014 4 71	ω		76.2	65,192	0,826
Payne, Rose	Hematology	SERMAL: Extension and classification of leukocyte and/or tissue antigens by serologic and genetic analysis of specific human antisera.	HE03365	HIN	85,622	ω 		36.0	33.945	5.353
Pfendt, Eva	Medical Microbiology	CANYIRTJ: In vitro studies of human tumors.	NCI-E-69- 2053	NIH	172, 369	m	· · · · · · · · · · · · · · · · · · ·	17.2	13.971	0.556
Rapp, Wolfgang	Gastroenter- ology	CUDINIAN: Immunological determination of the gastric antigenic esterase VI A in gastric juices of patients with <u>gastric</u> diseases.	Амобута	KIIN	97,829	ω		0.0	0.0	0.210
Reaven, Gerald	Metabolism	PAT DATA: Risk factors in coronary heart disease; modeling of metabolite action important in diabetes mellitus and atherosclerosis; innation data on metabolic disorders; participation in nationwide clinical trial of "lipid hypothesis".	ተረጥ የ፲፱	HI	620, 030	w		849.7	414.699	35.213
Reaven, Gerald	Metabolism	LRCINFC: Study of prevalence of lipids and lipid diseases in closed populations.	471411ዝ	HIM	620, 030	w		0.0	0.0	0.057
Remen, Gerald	Metabol1sm	RASSAY: Statistical studies of material obtained from impatients in study of metabolic abnormalities.	ተርጉ ተገን ት	HILL	620,030	ω		30.2	9.754	T†0°0
Reaven, Gerald	Metabolism	SCOR: Study of relationship between attitudes and habits in atheroscierosis.	HL14174	NITH	620,030	ω	· · · · · · · · · · · · · · · · · · ·	73.4	627.84	₹.05.4
Reaven, Gerald	Metabolism	SIRES: Elucidation of relationship of health habits to atherosclerosis.	4274 CIH	HCN	620,030	m m	- -	83.0	W. 878	1.342
Reaven, Gerald	Metabolism	WASSAY: Assays of cholesterol and triglyceride to determine distribu- tion of lipid diseases in free living populations.	HIJ4174	HIN	620,030	w	····	31.3	10.374	₹0°0
Reaven, Gerald	Metabolism	INPAT: Opened in error; never used.	4714111	HIEN	620,030	6 03		0.0	0.0	200°0
Fearer, Gerald	Metabolism	DISFLAY: Graphics display program and modeling programs for the research detailed above.	н.08506	HIN	71,305	w	·	3.2	2,456	3.859

SUMMARY OF COMFUTER RESOURCE USAGE APTILLIT, 1972 - APTILLIG, 1973

			שמעמט שטשמדת	l g	FOXOGIS INVESTIGATION	000		AMOUNT OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	T .	1.7	Terminal Access es Hours	1	Block Storage(K) (Block=2K Bytes)
Category 2 (cont'd.)	Non-Realtime,	Sponsored Research (CMRSEABLE)				© \$50	\$50/hr	@ \$.017 per pageninute	@ \$.10 per block
Reymolds, Walter	Genetics	TEXTS: Text management support for engineering efforts in instrumenta-tion: commercial technical data and information retrieval programs.	NGR004	MASA	180,000	ω	°°°	0.0	96.99
Robertson, William	Pediatrics	UGAG: Urinary analysis of glycosa- menoglycans; immunoglobin concertra- tions in sera; binding of ligands to macromolecules.	i	Hart- fd. Fdn.	1	w).i.	**.836	0.207
Rosenberg, Leon	Medical Microbiology	ALEXINE: Studies of serum complement in mice.	AI09341	HIL	202 64	v	17.8	6.639	0.215
Fosenberg, Saul	Oncology	MEDCHOOL: Development of time- oriented patient record system for patients with malignant diseases.	i	Am. Cancer	İ	υ	346.0	243.640	620*6
Rosenberg, Saul	Oncology	TOD: Same as above, converted to TOD, ACME's Fine-Oriented Database system.	:	Am. Cancer	l	೮	52.1	14.867	2.9%
Rosenberg, Saul	Oncology	STATIST: Statistical analysis of survival rates of cancer patients.	1	Am. Cancer	1	ω.	80.9	28,568	2,419
Rosenquist, Grace	Gastroenter- Fology	GASTRIN: Calculation of serum gastrin concentrations of normals and patients with G.I. tract diseases.	AM0697.1	HEI	628,76	w	65.6	26.788	0,127
Rosenthal, William	Otol aryngol- ogy	REDEARCH: Auditory processing in language deviant children; longitu- dinal study and follow-up of language deviant children.	NSO7514	H	157,136	ω	N N	0. 481	0.561
ೌರವ್ಯಗ್ರಿಕ್ಷ ar den, Jonathan	Blosciences	POPECOL: Computer simulation of models of population growth.		Dept.	ì	ro ₂	0.0	0.0	*100°0
Fussell, Alan	Biochemistry	AFFINITY: Enzyme assay calculation.	GM07581	HEU	313, 398	ಕು	0.0	0.0	0,102
Funcy Frederica	Otolaryngol- ogy	CRIFFORM: Attempt to validate an automated approach to hearing screening in the newborn.	NSOT 97 4	HEL	42, 521	b	1.5	992°0	0.019
Schubert, Sarl	Otolaryngol- ogy	SOURCS: Analysis of signal waveforms by Fourier, correlational and similar techniques.	!	Pept. Funds	1	ω	21.1	8.790	л 9° 0
Schrartz, Donald	Anesthesia	RESPOT: Calculation of cardiac indices; correlation with blood ionized calcium levels.	CM12527	HIN	503, 159	ω 	129.5	70.433	1.089
Cimpson, Jack	Physics	SUCIE: Design work for a superconducting magnetic beam transport channel for use in plon cancer therapy.	g135007	PSF	817,700	ω	9.6	6.285	3.9%
Skler, Alen	Psychiatry	CATAPUL: Relationship of parental separations during the first 18 years of life and personality characteristics of children.	1	Dept. Funds	1	ω	31.8	8.985	0,940

SUPPLARY OF COMPUTER RESOURCE USAGE April 17, 1972 - April 16, 1973

			TAY CO TOGOTO	EGOGGE STEEDER			10 TOTA	AMOUN	AMOUNT OF USAGE	
INVESTIGATOR	DEPARIMENT/ INSTITUTION	PROJECT TITLE		Agency	Ι.	Cate- gory* M	Minutes	Terminal Access	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Calegory 2 (cont'd.)	Non-Realtime,	Sponsored Pesearch (CHANGEABLE)				(8)	\$ \$50/hr		@ \$.017 per pageminute	@ \$.10 per block
Smith, James	Medical Microbiology	CANVIR/CANVIRI: Development of automated system for classification of human chrosomes.	NCI-E-69- 2053	NIH	172, 369	ω		1.41	53.149	4.161
Smith, Kendric	Radiobiology	CHBR: Data analysis of sedimentation patterns of DNA following X-irradia-tion.	CA10572	NIH	529, 889	κ		211.1	67.886	0.148
Solomon, George	Psychiatry	STREES: Relating various forms of stress and environmental manipulation to Leannity.	мн15976	HSMILA	54,306	တ		ф.9	1.649	0.720
Stark, George	Biochemistry	CHACS: Enzyme experiment data analysis and processing of chromato-grams generated by an amino acid analyser.	GM11788	NIH	74,157	က		23.5	5.32	1,139
Stemary John	Wed. School Student Affairs	MR: Computerization of student records of medical school.	ļ	Dept. Funds	:	κ		10.4	1,801	0,022
Stocker, Bruce	Medical Microbiology	STM: Genetics and physiology of salmonella typhimurium.	A100082	HIN	152, 418	တ		31.1	11,253	8.957
Strickland, Robert	Gastroenter- ology	GASTRIC: Analysis of gastric secretory function tests.	AM05418	NTH	66,785	σ		0.0	0.0	0.250
Stredeman, Jon	Genetics	ADMIN: Capital equipment inventory.	NGR004	NASA	180,000	w		23.5	8.222	2,178
Vosti, Kenneth	Infectious Diseases	VCSII: Cross-tabulation of variables associated with bacterial infections.	A103638	NTH	38,112	တ		3.8	3.322	2.778
Watson, Starley	UCI.A	HUDA: Investigation of biological bases of pain relief.	!	UCLA Funds	İ	ω		10.0	6.283	0.010
Neisszan, Irving	Pathology	THYLES: Statistical analysis and data handling for pathology research.	A109072	HIN	72,007	w		55.3	7.771	0.516
Whitson, Robert	Regional Medical Frogram	MES E/AL: Evaluation of multiphasic screening project in San Joaquin Courty to discover its effect on disease treatment patterns.		HSMHA	50,517	w		2.2	0.686	3,470
Wolcott, Leslie	Psychiatry	MINDIM: festing statistical corre- lations between drug and non-drug data, e.g., amphetamines, placebos, ING, etc.	AA00498	HSMHA	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	s .	6976	91115.4	0.057 , 11844.785	0.173
Sategory 3 Non-Stanford Medical (CHANGELBLE)	dical (CHARGE	(STAT)				-			@ \$.025 per pegeminute	9 \$.10 per block
Belt, Donald	Otolaryngol- ogy	SEC: Process and evaluate hearing and vision screening data.	ŀ	Perso- nal Funds	l	ಬ		0.0	0 ° 0	0,022
Belze r, Folkert	Univ. of Calif at SF	KIDNEY: Selection of recipients for renal homotransplantation; measurement unit and calculation of homodynamic changes in transplant patients for detection of incipient rejection.	I	Univ.	1	rv.		394.8	401.350	13.137

SUMMARY OF COMFUTER RESOURCE USAGE APRIL 17, 1972 - April 16, 1973

								AMOUT	AMOUNT OF USAGE	
日本 サンサンコード	DEPARTMENT/	S account Devices a Viva	Identifying Current Current	OR CONTRA	Current		+	ĕ	TIME SHARING	Block Storage(K)
TWESTICATOR	INSTITUTION	PROJECT TITLE	Number	Agency	Annual Amt.	gory*	Minutes	Hours	Pageminutes (K)	(Block=2K Bytes)
Category 3 (cont'd.)	Non-Stanford	'edical (CHARGEABLE)							@ \$.025 per pageminute	8 \$ 10 per block
Chang, Herbert	Prentice Electronics	PXXXX SC: Preparation for possible ACME use of Prentice PXXXX communications controller.	1	Pren- tice Elect- ronics	:	υ	-	2.1	0.508	o.ary
Daughters, George	Palo Alto Medical Re- search Fdn.	PLAYTHE: Instruction in computer use for PAMR staff.		PAMR	!	E∺		5.5	1.055	0.182
Daughters, George	Palo Alto Medical Re- search Fdn.	CINES: Myocardial dynamics.	i	PAMR	1	υ		103.8	23,520	0.433
Daughters, George	Palo Alto Medical Re- search Fdn.	IABCHECK: Routine terminal use for PACH Clinical Laboratory.	1	PAMR		υ		6.22	4.77.0	760.0
Efron, Brad	Statistics	ETHON: Biostatistical analysis of drug data.	i	Perso- nal Funds	1	ω	1 17 4 16 16 16 16 16 16 16 16 16 16 16 16 16	0.1	0.008	090.0
Kountz, Samuel	St. Univ. of NY	TXXIDHTY: Donor-recipient pairing for national kidney transplant sharing program.		St. Univ. NY	İ	ω		1.6	1.216	0,2 <i>7</i> T
Mead, Carol	Palo Alto Medical Clinic	CARPPA: Correlation of cardiac health and exercise, medication, smoking habits, etc.	j	PA Med. Clinic	!	ω		7.0	0.143	G.015
Sterart, Louis	Jung Insti- tute	DREWIS: Concordance of psychiatric dream data.	!	Jung Inst.	:	w		0.0	0.0	0*متن
Pickner, Ernest	Palo Alto Medical Re- search Fdm.	VISCOUS: Viscous behavior of blood.	F44620	PAMR	ŀ	r ₂		₹•92	17.052	20 4. 0
Tickner, Ernest	Palo Alto Medical Re- search Fdn.	MERMES: Development of computer- averaged transient routine to detect heart murmurs.	l	PAMR	ļ	ro O	SUBFOTAL	7.6 595.5	46.118 495.740	15.0%
Category & Medical Students (FREE)	c (FREE)								@ \$.02 per pageminate	9 1.16 per block
Atheam, Fred	Student	HEART: Conversion of the digitalized results of ultrasonic studies of the heart into form allowing a model of heart surfaces to be constructed and analyzed.				£4		9.0	0.130	100
Bosley, Mac	Student	PMATCITY: Learning computing and PL/ACA:				E⁴		5.6	0,540	5.035
Brast, Well	Student	RODENTS: Statistical programs for student's research.				E÷		5.5	0.235	K!!!
Brunds, Michael	Student	MEINICRO: Evaluation of data from garma counter on per cent cytotoxicity in cell suspensions exposed to a variety of developed antisera against thymus and brain determinants.				EH		13.4	η, 681	36.

SUMMARY OF COMPUTER RESOURCE USAGE
April 17, 1972 - Arril 16, 1973

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		-	DIRECT GRANT CR CONT	CB CONTRACT SUPPORT	BRR RAMM		AMOUNT OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	FROJECT LITLE		Current 7 Annual Amt.	Cate- gory* Minutes	Terminal Acc Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Category 4 (cont'd.)	Medical Students (FREE	nts (FREE)					3 \$.02 per	9 \$.10 per block
Bull, Kenneth	Psychiatry	K BULL: Effects of injections of epinephrine v. nor-epinephrine on acconistic (a.gressive, withdrawa, fear) and autistic behaviors in Rhesus monkeys.			E4	5.4	1.412	0.320
Calvert, James	Student	TEXT: Solving the economic problem of medical research funds allocation; one criterion: change in mortality rate.			E⊸	0.0	0.0	°.840.0
Cavalli, Luca	Genetics	HUMSEN: Classwork for course in human genetics.			£⊣	21.3	12.163	0,568
. Cavalli, Juca	Genetics	BICKETNY: Elementary biostatistics course for undergraduates, aimed especially at these who have difficulties with math.			E+	9.96	69.228	0,511
Chester, Thomas	Student	PLAQUE: Anti-tumor immune responsive effects of interferon and interferon inducers.		·	€⁴	7.22	11.104	1.937
Chiampi, Nona	Student	MEMBRISH: Calculation of enzyme activities and carbohydrate content of cell fractions.			E⊣	29.7	8.129	90.505
Corby, James	Student	HURRY: Relationship between attention and enhancement of average evoked response (AER) magnitude.			€	6.0	0.177	20 4. 0
lekker, Don	Student	UGG: Ultrasound studies of human heart.			Ē	71.3	609.62	3.432
: :msdale, Joel	Student	EETPEACE: Characterization of goals in parchiatric wards and ward pressures on patients and staff to conform to the goals.			E4	1,2	1.138	2.834
::bcwy, Ponald	Student	TURTLE: Enzyme charges in the skeletal muscles of chronically exercized rats.			t +	7.1	1.484	0.114
Selder, Salph	Student	NEUROVIS: Mathematical modelling of visual system of the cat.			H	3.0	0.422,	0.051
Feldman, Sary	Student	ASTRUK: Monitoring of airway resistance values during sessions with . astronatic patients and normal subjects.			E-1	0.0	0.0	0.010
Fink, Glenn	Student	RHIMO: Study of rhinoviruses.			Ē⊣	1.5	0.308	910.0
Jenel, John	Student	DOGIAB: Indicator dilution tech- niques for measuring pulmonary blood flow and lung transfer function,			E+	0.0	0.0	0.105
Sartrell, Namette	Student	GAY: Analysis of responses to quest- ionnaire on psychiatrists' attitudes toward gay worse.			H	16.3	3.973	0,226

SUMMARY OF COMPUTER RESOURCE USAGE April 17, 1972 - April 16, 1973

lopment			Block Storage(K) (Block=2K Bytes)	9 \$.10 per block	0.085	1.157	0.2%	5.699	1.152	0,472	%2.0	7.t+.4	₩.899	0,192	0.732	0.216	0.072	840.0
Core Research and Development Collaborative	ing	AMOUNT OF USAGE	Pageninutes (K)	@ \$.02 per pageminute	6.164	13.391	0.047	17.412	53.878	6.453	944.0	51.788	0.0	0.054	10.266	0.0	0.0	0.0
	S = Servi	AMOU	Terminal Access Hours		19.9	51.1	0.1	56.4	95.5	24.3	1.3	140.2	0.0	0.2	9.1	0.0	0.0	0.0
		BATCH																·
		BRR	Cate- gory*		H	E+	H	H	H	H	F	H	H	F	H	E	E⊣	H
USAGE 1973		ACT SUPPORT	Current Annual Amt.															
APril 16, 1973		A CONTR	Agency													·		
SUMMARY OF COMPUTER PESCURCE USAGE APril 17, 1972 - April 16, 1973		DIRECT GRANT OF	Identifying Current Number Agency Annual Amt										- 1 - 1 - <u>-</u>					
SUMMARI April 1			PROJECT TITLE	nts (TREE)	HEXION: Interaction of Lac Repressor protein with Eich and inducing sugars using NUR spectroscopy.	INDIANTR: Pre-natal risk vs. outcome studies of Indian and white populations.	COMPUTE: Thesis research project on mechanism of insulin action.	NOWAH: Information processing, storage, retrieval and display for students' research on enumerating a minor cell population by fluorescent techniques.	Estrogen-induced alterations in specific species of chicken liver tRNA.	GROCURY: Analysis of grouth curves of tissue cultures, comparing them to a logistic curve and analyzing variance.	UNFARTS: Analysis of data for doctoral dissertation on infants' fear of strangers.	CFS: Clarification of mechanisms of pyrimidine synthesis in mammals and the relationship of that synthesis to the control of cellular proliferation.	MEDSPOT: Survey of marijuana use among medical personnel.	PYCOPLAS: Amino acid analysis of media used for growth of mycoplasma and tissue culture cells.	CAB: Development of risk/benefit guidelines for saphenous vein - coronary artery bypass surgery.	LEAPN: Analysis of data from an ANGE scintillation camera in connection with kidney blood flow studies; computer diagnosis of liver and cardiac disease.	HISTOCCH: Evaluation of data from gamma counter on per cent cytotoxicity in cell suspensions exposed to a variety of developed antisera against thymus and brain determinants.	NBICKED: Statistical analysis for thesis project on proteins; storage of research notes and data, edited class notes and references.
		,	DEPARTMENT/ INSTITUTION	Medical Students (FREE)	Student	Student	Student	Student	Student	Student	Student	Student	Student	Student	Student	Student	Student	Student
			INVESTIGATOR	Category 4 (cont'd.)	Sraber, Mark	itset, Pichard	Jecobs, Beverly	Jan, wesley	Kyde, Barry	Leith, Fonnie Sue	Lenssen, Barbara	Levine, Rodney	Lipp, Martin	Masswer, Gerald	Willer, Craig	Miller, Stephen	M.schak, Ronald	Nobley, William

SIMMARY OF COMMITTER RESOURCE USAGE APELL 17, 1972 - April 16, 1973

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			æ	CONTIBACT STIPPORT	HAR RATIO	AMOUT	MI OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE		Current Annual Amt.	1 2	Terminal Access	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Category 4 (cont'd,)	Medical Students (FREE)	ants (FEEE)					@ \$.02 per pageminute	3 \$.10 per block
Myers, Woodrow	Student	MSTP: Instruction in statistics and introduction to computers for advanced minority high school students in the Youth Opportunities Program (YOP).			H	0.84	13.533	9:1:0
neff, Nicola	Student	POLYRIBO: Extraction of polyribosomes and ribosomes from human fibroblast cells in culture to determine relative proportions and quantity throughout cell life culture.			£4	89.5	ու786	2.001
Nestor, Larry	Student	DIFFDX: Establishment of computer program to aid in differential diagnosis.			Ħ	0.0	0.0	0,072
Nola, Gaeton	Student	DIGMI: Effects of several drugs on hemodynamic parameters in dogs.			£1	35.2	8.851	1.059
Huwer, Marc	Student	NEUROW: Modelling of interactions of groups of neurons.			E	57.6	30.555	1.163
Cdell, Robert	Student	CIS: Learning use of ACME system.			F	9.9	2.045	0.135
Peterson, Daniel	Student	MODELIN: Formulation of comprehensive model for insulin metabolism in the human body.			E+	0.0	0.0	0.038
Fope, Stephen	Student	AY21611: Cardiovascular function parameters of various pharmacologic agents.			F	0.0	0.0	9.00.0
Raybin, Daniel	Student	ASSAYS: Calculation of enzyme assays and enzyme kinetics.			EH	2.2	0.624	0.425
Rosenfeld, Kon	Student	CCUPSYCA: Study of psychophysiological adaptation of male patients to the Coronary Care Unit.			E	0.0	0.0	200.0
Fosenthal, William	Student	MESSARCH: Auditory processing in language deviant children; longitu-dinal study end follow-up of language deviant children.			E	0.0	o. o	0.138
Sachs, David	Student	PCFCIT: Statistical analysis of questionnaires completed by newspaper reporters and editors on their attitudes and orientations toward environmental health issues.			EH	2.7.	3.748	0.716
Sack, Robert	Student	MASOCH: Item analysis of question- naire to determine which questions best discriminate between normals and psychiatric patients; also cluster analysis for internally correlative items.			E	22.1	6.052	0.560
Schwartz, Berry	Student	CELLCOUM: Analysis of Coulter Counter data for study of aging process at cellular level.			FI	1.8.	ሪ. ሴ 47	0.060

SUNGATION COMPUTER RESOURCE USAGE
April 17, 1972 - April 16, 1973

			DIRECT GRANT OF	R CONTRACT			PATYTI		NT OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Current Number Agency Annual Amt.	Agency An		Cate- gory* Mir	_	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Sategory 4 (cont'd.)	Medical Students (FEEE)	onts (FREE)							@ \$.02 per	3 \$.10 per block
Siever, Larry	Student	GRADIENT: Study of gradients of biogenic amines in the spinal cord cerebrospinal fluid.				H		0.0	0.0	9.006
Sinclair, Allen	Student	HEARTCEL: Measurement of intervals between beats of individual heart cells and administration of drugs to cells to change environmental conditions.				£4		0.0	0.0	•.0.0
Srinelli, Nico	Psychiatry	COMPBIOL: Class account for "Compu- ters in Biology and Medicine,"				E+		32.9	26.765	0 .56 2
Siroul, Myrna	Student	FETAL: Data analysis for thesis project on relationship of maternal corticosteroids to the development of the fetal hypothalmic-pituitary-adrenal axis.		111		€+		25.2	21.616	0.145
Urknown Users	Mostly Students	SCRATCH: Minor use of the system without data storage,		,		7 SUB	SUB-TOTAL	440.5 1458.5	150.554 614,208	0.161
Category 5 Realtime,	Core Research	(FREE)	6 1 1 1 1 1 1 1 1 1 1 1				-		@ \$.02 per	3 \$.10 per block
Sacon, Tirginia (J. Lederberg)	Genetics	GAVE: Computer control of Finnigan 1015 quadrupole mass spectrometer.				Cor		109.2	143.923	13.170
Serson, will	Heurology	ACME: Development of time series analysis service programs for ACME		-	· , <u>-</u>	30 1		592.8	394.915	92731
Lederberg, Coshua	Genetics	DEMDRAL: Mass spectra analysis and interpretation.				cor SUB-	SUB-TOTAL	3160.5	4146.608	190.372 115.211
Category 5 Non-Pealtime	Core Research	(FREE)							@ \$.02 per pageminute	3 \$.10 per block
Cann, Howard	Pediatrics	GUAT: Testing of new utility program for dumping files to tapes readable at other computer facilities.				Cor		0.0	0.0	0.5%
Crang, Herbert	Prentice Electronics	PZ/00 SC: Preparation for possible ATME use of PZ/00 communications controller.				Cor		10.4	1.579	0.053
Cchen, Stan	Clinical Pharmacology	DEWINALRY: Computerized system to warn of interactions of drugs administered to patients.				Cor	·	364.5	239.170	12, 2 84
Lederberg, Joshua	Genetics	PILOT1: Demonstration programs.		-,-		Cor		462.5	204.063	14.528 .
Lederberg, Joshua	Genetics	PILOT2: System testing and monitoring.	· · · · - · ·	· ·	······	Ço		281.2	117.959	9.217
Rosenberg, Saul	Oncology	MEDONCOL/TOD: Test case for use of ACME's Time-Oriented Database (TOD) system.				cor sub-	SUB-TOTAL	257.0	240.886 803.657	7.773

SUMMARY OF COMPUTER LESCURCE USAGE APril 17, 1972 - April 16, 1973

	***	- 3	DIRECT GRANT C	CR CONTRACT SUPPORT	T SUPPORT		BATCH	AMOUNT	T OF USAGE	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.	Cate- gory* N	-	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Category 7 Staff (FREE)	-		1944						@ \$.02 per pageminute	3 \$.10 per block
Bassett, Robert	ACME	ACMECONS: Application program development; user consultation.				Cor		723.8	461.129	7.787
Baxter, Erica	ACME	NOTES: Faintenance of ACME Note index and list of user publications.				Cor		71.6	25.902	6,568
Baxter, Erica	ACME	TRAINTNG: ACME user accounting records.				Cor		50.6	6.983	0.781
Becker, Sheldon	Computation Center	ACME: System development and testing.				Cor		0.0	0.0	0.008
Berman, Joseph	ACKE	RACKE: System development and testing.		······································		Cor		2.1	0.965	£008
Berns, Robert	ACME	DEMPRAL: System development and testing.				Cor		9.8	3.953	6.513
Breverman, Charles	ACME	APPLICAT: System development and testing.		<u>,</u>		Cor	··	71.5	16.742	1.098
Breverman, Charles	ACME	RADIO: Development of radioimmuno- assay programs.				Cor		72.4	13,479	118 & &
Briggs, Russell	ACME	ACME: System development and testing.				Cor		8.0	921.0	1
Briggs, Russell	ACME	REPDP-11: Disc monitor for PDP-11.				Cor		3.2	0.178	3.774
Crouse, Linda	ACME	CATH IAB: Develorment of real-time medical applications.		· · · · · · · · · · · · · · · · · · ·		Cor	•	25.1	7.109	ı. 689
Feigenbaum, Edward	Computation Center	DEMOS: System demonstrations.				Cor		0.0	0.0	0.132
Feigenbaum, Edward	Computation Center	TOESTEST: System demonstrations.				Cor	· · · · · · · · · · · · · · · · · · ·	0.0	0.0	η20°0
Freret, Payne	ACME	LOMA: Development of graphics software.				Cor		1.5	0.285	₹92.0
Frey, Regina	ACME	ACME: File system testing; consulting programs.				Cor		180.5	46.7.94	13.073
George, Denise	Computation Center	OS: System development and testing.				Cor		0.0	0.0	0,002
(jermanc, Frank	ACME	TOD: Development of Time-Oriented Database System (TOD),	7	-		Cor		283.6	204.121	7.214
Germanc, Frank	ACME	USERSERY: User consultation and applications program development.		······································		Cor		122.9	57.227	1.331
Glusti, Rick	ACNE	PI: System development and testing.				Cor		220.0	103.771	4.315
Goheen, Mark	ACME	ACEXIL: System development and testing.				Cor		236.6	98.754	1.364

SUMMANY OF COMPUTER RESOURCE USAGE April 17, 1972 - April 16, 1973

			8	CONTRACT SUPPORT	BRR BATCH		INT OF USAGE TIME SHARING	
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	₹	Current Annual Amt.	4-5-	Terminal Access es Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)
Caterory 7 (cont'd.)	Staff (REE)						@ \$.02 per pageminute	@ \$.10 per block
Granieri, Charles	ACME	ACME: System development and testing.			Cor	127.3	57.107	2.101
Harrison, Jeff	ACME	SUMMER: System development and testing.			Cor	0*12	31.896	0.661
Heathman, Mike	ACME	MINE: System development and testing.			Cor	81.3	77.241	3.794
Hu, Jean	ACME	ACME: System development and test- ing.			Çoz	0.0	0.0	8.172
Hundley, Lee	ACME	ACME: System development and testing; emphasia on real-time data acquisition.			cor	125.6	54,334	5.057
Jamtgaard, Ron	ACME	GOAL: Director's office projects.			Cor	115.0	30.988	1.950
Jamtgaard, Ron	ACME	MYJOB.TASK: Task management.			Cor	0.0	0.008	0.372
Lederberg, Joshua	Genetics	TESTS: Systems tests.			cor	102.6	36.001	3.110
Leong, Leon	ACME	WORK: Development of applications program.			cor	5.44	896.72	.9 -
Lew, Ying	ACME	SUNTER: System development and testing.			cor	109.5	34.139	2.068
Martin, Charles	Computation Center	ACME: System development and testing.			cor	0.0	0.0	200.0
Matheson, Russ	ACME	71: System development and testing.			Cor	2.7	3.336	5.182
Miller, Stu	ACME	ACME: System development and testing.			Cor	125.2	56.239	1.307
Neimat, Marie-Anne	ACME	NEW: System development and testing,			cor	22.2	6.298	9.226
Nozaki, Tom	ACME	ENGINEER: Engineering applications.			COF	35.4	11,049	2.795
Prowell, Marlin	ACME	WAR: Applications program development.			Cor	150.6	860.49	1.5%
Sanders, William	ACME	ASDFG: Hardware and software development.			Cor	0.2	0.050	1.342
Schroeder, John	ACME	ACME: System development and testing.			cor	1.0	0.150	0.019
Stainton, Robert	ACME	SCC: System development and testing.			Cor	79.4	16.785	1.657
Stubbu, Bert	Computation Center	FNGINEER: Engineering applications.			Cor	0.0	0.0	¶∵O°0
Tribolet, Chuck	ACME	CAI: Development of computer-aided instruction for teaching PL/ACME.			Cor	176.8	55.653	6,617

SUMMARY OF COMPUTER RESOURCE USAGE April 17, 1972 - April 16, 1973

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			DIRECT GRANT	CONTR	CR CONTRACT SUPPORT		BATCH	AMOUNT	NT OF USAGE TIME SHARING		
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Identifying Number	Agency	Current Annual Amt.		Minutes	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)	
Category 7 (cont'd.)	Staff (FREE)								@ \$.02 per pageminute	@ \$.10 per block	
Weyl, Steve	ACNE	DATARASE: Development of Time-Oriented Database System (TOD).				Cor		144.0	58.151	2.556	
Weyl, Steve	ACME	SWEYL: Applications program development.				Cor		215.0	129,489	1,972	
Weyl, Steve	ACME	SMAC: Applications program development.				Cor	· · ·	0.0	0.0	0.004	
Whitner, Jane	ACME	STATISTI: Statistical program development,				Cor		508.4	727.712	4,105	
Whitner, Jane	ACME	STATTEST: Statistical program development.				COF		0.0	0.0	0,183	
Wiederhold, Gio	ACME	TEST: System testing.				Cor	<u> </u>	126.0	130.13	10,168	
Wiederhold, Gio	ACME	CSMP: Continuous system modelling program development.				Cor		0.0	0.0	1 260°n	_
Wiederhold, Gio	ACME	DFMC: Demonstration for ACME visitors.				Cor		0.75	12.570	1.521	120
Wiederhold, Voy	ACME	MANUAL: Maintenance of PL/ACME Manual.				Cor		120.6	19.136	15.446	_
ACME Staff	ACME	Jarublic: Development and storage of Public files.		 		Cor		72.1	25.534	9.554	
ACME Staff	ACME	DATABARK.TODD: Public file of Time- Oriented Database (TOD) programs.				Cor		48.4	20.743	0.366	
ACHE Systems Staff	ACNE	PROGRAMS: Collection of systems programs.				Cor		12.0	3.748	2,579	
I'M Customer Engineers	IBM	I CE TERMDIAG: Terminal testing and diagnosis.				Cor	··· <u></u>	48.0	12.550	0.135	
TL/ACME Classes	ACh:E	PLACE: Practice programming for FL/ACME classes.				T.	SUB-TOTAL	326.2 5067.0	25.572	1.925	
Category 8 Stanford Univer	sity Mospital	(CHARGEABLE)							@ \$.017 per pageminute	3 \$.10 per block	
Rarber, Vic	SUH Data Processing	SUHDP: Accounting	;	Hosp.	i	w		16.8	7.300	0.957	
Rarber, Vic	SUM Data Processing	MEDELCO: Statistical survey for a data collection/transmission system.	ŀ	Hosp.	1	ω		211.9	460,017	32.005	
Daly, Virginia	SUH Clinical Lab-Immunol- ogy	CH50: Establishment of normal values for human serum total complement levels and clinical tests on patients to determine their level.	1	Hosp. Funds	İ	w		11.7	19n 'n	0.072	
				_			_				

SUMMARY C. LUMPUTER RESOURCE USAGE April 17, 1972 - April 16, 1973

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								AMOUT	AMOUNT OF USAGE		
INVESTIGATOR	DEPARTMENT/ INSTITUTION	PROJECT TITLE	Oliver GRANI R CONTRACT SUPPORT Identifying Current Number Agency Annual Amt	Agency	ACT SUPPORT Current Annual Amt.	Cate-	BATCH Minutes	Terminal Access Hours	TIME SHARING Pageminutes (K)	Block Storage(K) (Block=2K Bytes)	
Category B (cont'd.)	Stanford Univ	Stanford University Hospital (CHANHEARLE)							@ \$.017 per pageminute	@ \$.10 per block	
Forrest, William	SUH Clinic	SCHEDULE: Automation of monthly scheduling of doctors for "on call" duty.	ł	Clinic Budget	•	S		2.84	27.398	2,202	
Petralli, John	SUH Clinical Lab-Infec- tious Dis- eases	MED_DATA: Computer method for improvement of antibiotic sensitivity data and guidance in therapy.	l	Hosp.		ω		2035.0	177.931	84,559	
Petralli, John	SUH Clinical Lab-Infectious Dis- eases	PROCRESS; Program development for Infectious Disease Lab computing.	l	Hosp.	i	Ø		न * १ ।	2,293	1,931	
Petralli, John	SUH Clinical Lab-Infec- tious Dis- eases	INFCON: Infection control: data on isolation patients.		Hosp. Funds	!	ω		104.1	16.271	1,834	
Sussm a r, Howard	Stil Clinical Lab-Pathol- ogy	CLOSO937: Statistical analysis programs for data generated by Clinical Laboratory Information System.	ı	Hosp.	I	ν v	SUB-TOTAL	<u>175.7</u> 2617.8	1338.427	1.242	- 121 -
Category 10 Realtine,	Pilot and Per	Pilot and Pending Proposal (FREE)	1 4 0 0 1 1 1 1 1	1 1 1 1 1 2 8 8				1 1 1 1 1 1 1 1 1 1	@ \$.02 per pageminute	@ \$.10 per block	•
Bunnenberg, Edward	Chemistry	CHEM: Development of a magnetic circular dichroism biotechnology resource.				တ		78.1	144.557	8.390	
Kadis, Leslie	Anesthesia	VISADP: Visual average evoked potential to graded light intensity as a correlate of pain threshold.				ν E	SUB-TOTAL	34.0	29.388	0.410 8.800	
Category 11 Non-Realtime,	Filot and Pe	Pilot and Pending Proposal (FREE)							6 \$.02 per	@ \$,10 per block	
Belt, Donald	Otolaryngol- ogy	HEAR: Collection and processing of hearing loss data.				w		0.0	0.0	0.072	
Cavalli, buca	Genetics	LAURA: Data analysis on population genetics.		****		ß		190.9	106.758	2,440	
Cohen, Leon	Neurology	MOTOR: Statistical analysis of single motor unit action potentials recorded from normals and patients. Aim is to develop diagnostic method for diseases of peripheral nerves and muscle.				ω		13.6	15.780	0. 960	
Schwartz, Donald	Anesthesia	RESPOT: Calculation of cardiac indices; correlation with blood ionized calcium levels.				ω w	SUB-TOTAL	10.9	7.020	0.198	

SUMMARY OF COMPUTER PESCURCE USAGE
April 17, 1972 - April 16, 1973

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	The base and the same of the s		DIRECT GRANT OR	CONTRACT		BRR	BATCH	AMOU	AMOUNT OF USAGE TIME SHARING		
INVESTIGATOR	INSTITUTION	PROJECT TITLE	Identifying Current Number Agency Annual Amt	Agency App			Minutes	Terminal Access Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)	
Category 12 Realtime,	Extended Non-	1-Punded (FRSE)							@ \$.02 per	@ \$.10 per block	
Constantinou, Christos	Urology	UROL: Investigation of upper urinary tract physiology.				ය <u>හ</u>	SUB-TOTAL	130.8	107.699 107.699	1.173	
Category 13 Non-Realtime,	Extended Non-	'Yunded (FR.ES)	1						@ \$.02 per	3 \$.10 per block	
Leiderman, P. Herbert	Psychiatry	KENTA: Analysis of data collected in Kenya, relating the effect of social structure of primary family on infants' social attachments in the first year of life.				S S	SUB-TOTAL	ξ.4 Σ.5	pegeminute 1,359 1,359	1.796	
Category 16 Combination of	Core Research	and Application (CUARGEARLE)							e 6.5 ↔	dock man 01 \$ @	
Sera, Hiram	SUH Pharmacy	ALERT: Drug Interaction Project, hospital pharmacy service.		Hosp. Funds		s SGI	SUB-TOTAL	<u>3670.2</u> 3670.2	pageminute 7456.016		- 12
Category 17 Operations (FGE)	Œ)									3 \$.10 per block	2 -
Class, Charles	ACME	ACME: Operations management; system testing and demonstration.				Cor		0.0179	pageminute 4800.367	10.425	
Rich	ACME	FLCWERED: Daily operations.				Cor		174.3	78.438	2,903	
Matous, James	ACME	GET: Daily operations.				Cor		0.0	0.0	0,600	
Montgomery, Rich	Computation	KP: Text editing.	-			Cor		0.0	0.0	450 ° 0	
James	ACME	VAT: Daily operations.	•			Cor		3.9	0.816	0.322	
Sutter, Jan	ACME	ACME: Daily operations.		<u>_</u>		Cor		53.4	6.838	3.994	
						SUB	SUB-TOTAL	6941.6	4886.459	18,268	
Category 9 Non-Health-Related Users	l	(CHAMDEABLE)	; ; ; ; ;					®	3 \$.02 per @	\$.10 per block	
			<u></u> , <u>-</u>			SUB	SUB-TOTAL	576.3	340,154	23,388	
					GRAND TOTAL		6,976 12	122764.5	31920.861	1420,727	
**These totalish but little of overall	is are shown becausetual computing, system use,	**These totals are shown because Pharmacy utilization involved many pageminute but little actual computing. The usage distorts the "pageminute" as a meast of overall system use.	/ pageminute: as a measure	EXCLUDIN	GRAND TOTAL		6, 976	119094.3	21,464,845	1325.146	
					~						

due to failures Percentage of scheduled time not available to users	ine 2.1%		RESOURC	PESOURCE USAGE		**************************************	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	•	
			pril 16,	5, 1973		CONTROLL CONTROL CON	To a core research and bevelopment C = Collaborative S = Service T = Training	Tobaent	
			CR CONT	CA CONTRACT SUPPORT	BRR BATCH		AMOUNT OF USAGE TIME SHARING		
			Agency	Annual Amt.	gory* Minutes	Hours	Pageminutes (K)	Block Storage(K) (Block=2K Bytes)	
				Number of					
	<u> </u>		opment	69		16920.5	12511.209	461.004	
				57.1 61	ਤੰ 	98208.8	1106.043	626.189 55 189	
				725	6,	6,976 122188.2	51580.707	1397.339	
			arch	23	-	576.3	340.15 ⁴	23.388	
				74.č	.	6, 976 122764.5	51920.861	1420.727	
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		32.	SUMMARY OF COMPUT						
			April 17, 1972 -			<u> </u>			-)
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			COTTROOPERING			-			
		Tra	Training		_				
		3UB	SUB-TOTA:						
		Non .	Non-Health-Related R						
		GRA	GRAND TOTAL						
			·						
Time scheduled for users					·	_			
Time not available to users	ers 128 hours			-		_	_		

VIII. APPENDICES

- A. Rationale of Shared Data Base Concept
- B. Medical Center Computer Planning Chronology
- C. Small Machine Multiplexor (Excerpt of ACME Note HAD.)
- D. ACME Note Index (May 11, 1973)
- E. ACME User Publications

APPENDIX A

DATE: March 16, 1973

To : P. Carpenter

FROM : E. Levinthal

Subject: Rationale of Shared Data Base Concept

This memorandum elaborates the rationale supporting the shared data base concept as it relates to the Medical Center Computing Facility. Computing at the Medical School can be categorized as follows:

- 1. Use of in-patient or out-patient data by clinical departments.

 This involves, in varying amounts, three components, a) teaching, b) research,
 c) patient-service management (i.e. fees, records, bills, etc.).
- 2. Non-patient related computing by clinical departments. This part is only indirectly related to the shared data base issue. Insofar as clinical faculty are using a computer resource for their patient related computing needs, they are apt, as a matter of convenience and familiarity, to want to use the same facility for the remainder of their needs. This will be modulated by considerations of price and services offered.
- 3. Non-patient related computing carried out by non-clinical faculty. This is clearly unrelated to the data base concept. It is, of course, related to the cost and services offered on the 370/158 system compared to those offered elsewhere. Many of these users take advantage of functions which call statistical routines and which are now built into the PL/ACME system. These will also be an important requirement of users in categories 1 and 2. In this case therefore the issue (as in category 2) is the service rendered, not the data base.

Addressing solely category one, memoranda were solicited from several members of this class. The responses are attached* and provide support for the shared data base concept.

There is clearly a momentum to use computers to handle patient related problems. Faculty are able to find resources to pursue these problems and will pursue them whether or not a shared data base in a central computer system is available. In principle the communication link researcher-to-researcher and researcher-to-business office are transactions that can be carried out by movement of paper or digital tapes or hardware interfaces between stand-alone facilities.

^{*}Memos attached from Drs. Cohen, Fries, Harrison and Merigan.